

Claims

1. An oligonucleotide conjugate comprising: (a) an oligonucleotide at least part of whose sequence is complementary to an intracellular nucleic acid sequence; and (b) a somatostatin analog.
2. The oligonucleotide conjugate according to claim 1, wherein the oligonucleotide is an oligodeoxyribonucleotide.
3. The oligonucleotide conjugate according to claim 1 or 2, wherein the phosphodiester compounds in the oligonucleotide are partially or fully replaced by phosphorothioate compounds.
4. The oligonucleotide conjugate according to claim 1, 2 or 3, wherein the 3' end in the oligonucleotide is covalently bonded to a propanediol group.
5. The oligonucleotide conjugate according to any one of claims 1 to 4, wherein the somatostatin analog is octreotide or octreotate or a derivative thereof.
6. The oligonucleotide conjugate according to any one of claims 1 to 5, wherein the somatostatin analog is covalently bonded to the 5' end of the oligonucleotide molecule.
7. The oligonucleotide conjugate according to any one of claims 1 to 6, wherein the somatostatin analog is covalently bonded to a base present in the oligonucleotide molecule via a spacer.

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8. The oligonucleotide conjugate according to claim 5 or 6, wherein the somatostatin derivative is Tyr³ octreotate.

9. The oligonucleotide conjugate according to any one of claims 1 to 8, wherein the intracellular nucleic acid sequence is an mRNA or viral RNA.

10. The oligonucleotide conjugate according to claim 9, wherein the intracellular nucleic acid sequence is the coding portion of an mRNA.

11. The oligonucleotide conjugate according to any one of claims 1 to 10, wherein the oligonucleotide has a length of 8 to 50 nucleotides.

12. The oligonucleotide conjugate according to claim 11, wherein the oligonucleotide has a length of 12 to 20 nucleotides.

13. The oligonucleotide conjugate according to any one of claims 1 to 12, wherein the oligonucleotide is partially complementary to the nucleic acid coding for the proto-oncogene bcl-2.

14. The oligonucleotide conjugate according to claim 13, which comprises the nucleic acid sequence 5'-GTT CTC CCA GCG TGT GCC AT-3'.

15. The oligonucleotide conjugate according to any one of claims 1 to 13, wherein the oligonucleotide is a peptide-nucleic acid derivative (PNA).

16. A pharmaceutical preparation, containing the oligonucleotide conjugate according to any one of claims 1 to 15, optionally in combination with a pharmaceutically compatible carrier.
17. Use of the oligonucleotide conjugate defined according to any one of claims 1 to 15, for the antisense therapy.
18. Use according to claim 17 for cancer treatment, for treating viral diseases, for treating inflammatory processes, for treating asthmatic diseases, for the therapy of diseases of the central nervous system and for the therapy of cardiovascular diseases.

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